

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Fauquier, Rappahannock
STREAM NAME: Rappahannock River
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E01R-03
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 2.17 - Miles
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Confluence of Jordan River
RIVER MILE: 175.58
LATITUDE: 38.76000 **LONGITUDE:** -78.02778

DOWNSTREAM LIMIT:
DESCRIPTION: Confluence of an unnamed tributary
RIVER MILE: 173.41
LATITUDE: 38.74083 **LONGITUDE:** -78.01944

Segment begins at the confluence of Jordan River to Rappahannock River at rivermile 175.58 and continues downstream to its confluence with an unnamed tributary at rivermile 173.41.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 19 samples - 15.8%) were recorded at DEQ's ambient water quality monitoring station (3-RPP175.51) at Route 647 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Culpeper, Fauquier
STREAM NAME: Carter Run
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E02R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 3.55 - Miles
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2004
UPSTREAM LIMIT:

DESCRIPTION: Confluence of South Run
RIVER MILE: 3.55
LATITUDE: 38.73410 **LONGITUDE:** -77.90986

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Rappahannock River
RIVER MILE: 0.00
LATITUDE: 38.69611 **LONGITUDE:** -77.90694

Segment begins at the confluence of South Run to Carter Run and continues downstream to its confluence with the Rappahannock River.

Segment length was extended from the 1998 303(d) listing based on hydrology, considering significant tributaries upstream from the monitoring station. The prior 2.67-mile segment started at the confluence of Locust Run to Carter Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (1998)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 18 samples - 16.7%) were recorded at DEQ's ambient water quality monitoring station 3-CAE000.25 at Route 688 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Culpeper, Fauquier
STREAM NAME: Great Run
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E02R-02
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 15.69 - Miles
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2004

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Great Run
RIVER MILE: 15.69
LATITUDE: 38.77962 **LONGITUDE:** -77.84951

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Rappahannock River
RIVER MILE: 0.00
LATITUDE: 38.62083 **LONGITUDE:** -77.86028

Segment begins at the headwaters of Great Run and continues downstream to its confluence with the Rappahannock River.

This segment was expanded from the 2002 303(d) listing to include all of Great Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (1998), e Coli (2004)

This listing of this segment is based on the water quality monitoring data from DEQ monitoring stations 3-GRT001.70 at Route 687 and 3-GRT007.72 at Route 802. The entire 15.69-mile segment was assessed as not supporting the Recreation Use goal for the 2004 water quality assessment due to exceedances of the instantaneous fecal coliform bacteria and e coli bacteria criteria. Four of 18 samples (22.2%) exceeded the instantaneous fecal coliform criteria, and two of 4 samples (50.0%) exceeded the e. coli criteria at station 3-GRT001.70. Three of 4 samples (75.0%) exceeded the instantaneous e. coli criteria at station 3-GRT007.72.

In addition, the 6.91-mile segment beginning at the confluence of an unnamed tributary to Great Run at rivermile 7.20, approximately 0.6 river miles downstream from Rt. 802, downstream to the confluence with the Rappahannock River was assessed as fully supporting the Aquatic Life Use with observed effects. The observed effects were noted in exceedances of the total phosphorus screening value of 0.20 mg/L at station 3-GRT001.70 (two of 15 - 13.3%).

IMPAIRMENT SOURCE: Unknown

The source of impairment is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Culpeper, Rappahannock
STREAM NAME: Hughes River
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E03R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 3.68 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016
UPSTREAM LIMIT:

DESCRIPTION: Confluence of Kilbys Run
RIVER MILE: 3.68
LATITUDE: 38.53847 **LONGITUDE:** -78.21516

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Hazel River
RIVER MILE: 0.00
LATITUDE: 38.52373 **LONGITUDE:** -78.16878

Segment begins at the confluence of Kilbys Run with the Hughes River and continues downstream to its confluence with the Hazel River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2004)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 17 samples - 11.8%) were recorded at DEQ's ambient water quality monitoring station 3-HUE000.20 at Route 644 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

In addition, two of 17 samples (11.8%) exceeded the total phosphorus screening value of 0.2 mg/L resulting in an assessment of fully supporting with an observed effect for the Aquatic Life Use goal.

IMPAIRMENT SOURCE: Unknown

The source of impairment is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Culpeper, Rappahannock
STREAM NAME: Hazel River
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E04R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 5.58 - Miles
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Confluence of Blackwater Creek
RIVER MILE: 21.61
LATITUDE: 38.58000 **LONGITUDE:** -78.10167

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary
RIVER MILE: 16.03
LATITUDE: 38.59028 **LONGITUDE:** -78.03861

Segment begins at the confluence of Blackwater Creek to Hazel River and continues downstream to its confluence to an unnamed tributary at rivermile 16.03.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 20 samples - 20.0%) were recorded at DEQ's ambient water quality monitoring station 3-HAZ018.29 at Route 729 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Rappahannock
STREAM NAME: Rush River
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E05R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 4.55 - Miles
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014
UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary

RIVER MILE: 8.78

LATITUDE: 38.73472

LONGITUDE: -78.19306

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Big Branch

RIVER MILE: 4.23

LATITUDE: 38.69639

LONGITUDE: -78.15472

Segment begins at the confluence of an unnamed tributary to Rush River and continues downstream to its confluence with Big Branch, approximately 0.98 rivermiles upstream of Route 621.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 17 samples - 23.5%) were recorded at DEQ's ambient water quality monitoring station 3-RUS005.66 at Route 211/522 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of impairment is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Rappahannock
STREAM NAME: Thornton River
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E05R-02
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 4.28 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016
UPSTREAM LIMIT:

DESCRIPTION: Confluence of the North Fork Thornton River
RIVER MILE: 21.88
LATITUDE: 38.65732 **LONGITUDE:** -78.21590

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence of White Walnut Run
RIVER MILE: 17.6
LATITUDE: 38.63838 **LONGITUDE:** -78.15694

Segment begins at the confluence of the North Fork Thornton River and continues downstream to the confluence of White Walnut Run, approximately 0.8 rivermiles downstream of Route 621.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2004)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 16 samples - 12.5%) were recorded at DEQ's ambient water quality monitoring station 3-THO021.19 at Route 620 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of impairment is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Culpeper
STREAM NAME: Muddy Run
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E07R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 12.58 - Miles
INITIAL LISTING: 1996 **TMDL SCHEDULE:** 2004

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Muddy Run
RIVER MILE: 12.58
LATITUDE: 38.52778 **LONGITUDE:** -78.07444

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Hazel River
RIVER MILE: 0.00
LATITUDE: 38.56167 **LONGITUDE:** -77.91111

Segment begins at the headwaters of Muddy Run and continues downstream to its confluence with the Hazel River.

This segment combines the two segments of Muddy Run identified in the 2002 303(d) listing, and has been expanded to include all of Muddy Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (1996/2002/2004), e Coli (2004)

The listing of this stream segment is based on data from the following DEQ monitoring stations: 3-MUU010.72 at Route 729; 3-MUU004.98 at Route 630 and 3-MUU000.82 at Route 625. The monitoring data from these stations indicate that the entire length of Muddy Run does not support the Recreation Use goal. The bacteria monitoring results from the 2004 water quality assessment for these stations are summarized below:

1. Six (6) of 20 samples (30.0%) exceeded the instantaneous fecal coliform bacteria criterion at station 3-MUU000.82;
2. Five (5) of 16 samples (31.3%) exceeded the instantaneous fecal coliform bacteria criterion, and 2 of 5 samples (40.0%) exceeded the instantaneous e coli bacteria criterion at station 3-MUU004.98;
3. Four (4) of 11 samples (36.4%) exceeded the instantaneous fecal coliform bacteria criterion at station 3-MUU010.72.

IMPAIRMENT SOURCE: Unknown

The source of bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Fauquier
STREAM NAME: Marsh Run
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E08R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 8.16 - Miles
INITIAL LISTING: 1996 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Craig Run
RIVER MILE: 8.16
LATITUDE: 38.56389 **LONGITUDE:** -77.75833

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Rappahannock River
RIVER MILE: 0.00
LATITUDE: 38.47417 **LONGITUDE:** -77.77639

Segment begins at the confluence of Craig Run to Marsh Run and continues downstream to its confluence with the Rappahannock River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting, Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform - 8.16 miles (1996), Dissolved Oxygen - 2.25 miles (2002)

The listing of this segment is based on data from DEQ monitoring stations 3-MAH000.19 at Route 651, and special study station 3-MAH004.18 at Route 668. The monitoring data from these stations revealed the following during the 2004 water quality assessment period:

- 1) The entire 8.16-mile segment is not supporting of the Recreation Use goal due to fecal coliform bacteria exceedances. Three of 14 samples (21.4%) exceeded the instantaneous fecal coliform criterion standard at station 3-MAH000.19, and 4 of 9 samples (44.4%) exceeded the criterion at station 3-MAH004.18;
- 2) Not supporting of the Aquatic Life Use goal due to excursions from the dissolved oxygen (DO) water quality criteria recorded at station 3-MAH000.19. Two of 15 samples (13.3%) were below the minimum DO level (4.0 mg/L) for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards. This segment is not supporting of the Aquatic Life Use in the 2.25-mile reach beginning at the confluence of Harpers Run to Marsh Run and continuing downstream to the confluence with the Rappahannock River.

This segment was first listed for a swimming use impairment due to fecal coliform bacteria exceedances in the 1996 303(d) report. A fecal coliform TMDL is scheduled to be developed by 2010. The TMDL to address the aquatic life use impairment may extend to 2014.

Additionally, citizen monitoring at station 3MAH-F12-SOS finds a high probability of adverse conditions for biota in the 5.91-mile segment beginning at the confluence of Craig Run and continuing downstream to the confluence of Harpers Run with Marsh Run.

IMPAIRMENT SOURCE: Unknown, Unknown

The source of impairments is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Fauquier
STREAM NAME: Browns Run
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E08R-02
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 2.39 - Miles
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary
RIVER MILE: 2.39
LATITUDE: 38.54278 **LONGITUDE:** -77.73056

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Marsh Run
RIVER MILE: 0.00
LATITUDE: 38.52389 **LONGITUDE:** -77.76139

Segment begins at the confluence of an unnamed tributary to Browns Run, near the Route 17 bridge, and continues downstream to the confluence with Marsh Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 7 samples) were recorded at DEQ's water quality monitoring station 3-BOS000.72 at Route 653 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of impairment is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Fauquier
STREAM NAME: Craig Run
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E08R-03
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 3.61 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Craig Run
RIVER MILE: 3.61
LATITUDE: 38.58394 **LONGITUDE:** -77.80852

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Marsh Run
RIVER MILE: 0.00
LATITUDE: 38.56392 **LONGITUDE:** -77.75875

Segment begins at the headwaters of Craig Run downstream to the confluence with Marsh Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2004)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 7 samples) were recorded at DEQ's ambient water quality monitoring station 3-CRA000.82 at Route 656 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of impairment is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Culpeper, Fauquier
STREAM NAME: Rappahannock River
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E08R-04
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 2.02 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016
UPSTREAM LIMIT:

DESCRIPTION: Confluence of Ruffans Run
RIVER MILE: 148.82
LATITUDE: 38.53970 **LONGITUDE:** -77.83928

DOWNSTREAM LIMIT:
DESCRIPTION: Confluence of Tinpot Run
RIVER MILE: 146.8
LATITUDE: 38.52669 **LONGITUDE:** -77.81213

Segment begins at the confluence of Ruffans Run to the Rappahannock River downstream to the confluence of Tinpot Run with the Rappahannock River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2004)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (8 of 37 samples - 21.6%) were recorded at DEQ's ambient water quality monitoring station 3-RPP147.10 at Route 15/29 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of impairment is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Culpeper
STREAM NAME: Lake Pelham
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E09L-01
ASSESSMENT CATEGORY: 5C
SEGMENT SIZE: 253 - Acres
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Upstream limit of Lake Pelham
RIVER MILE: 26.07
LATITUDE: 38.46603 **LONGITUDE:** -78.04666

DOWNSTREAM LIMIT:

DESCRIPTION:
RIVER MILE: 23.99
LATITUDE: 38.46905 **LONGITUDE:** -78.01750

Segment includes all of Lake Pelham.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: Dissolved Oxygen (2004), pH (2004)

The listing of this station is based on data from DEQ lake monitoring station 3-MTN025.17. Water quality monitoring data revealed the following for the 2004 water quality assessment period:

1) The Aquatic Life Use is impaired due to low dissolved oxygen in the bottom waters of the reservoir. Eight of 12 samples (66.7%) in bottom waters were below the minimum DO level (4.0 mg/L) for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

A Trophic State Index (TSI) value was calculated for total phosphorus (TP) and secchi depth using surface data (0.3 m depth) collected during the summer months (June through September). Chlorophyll a TSI values were not calculated because the reservoir was treated with algaecide. The calculated TSI values are summarized below:

Secchi, avg (m)	Secchi, TSI	TP, avg (ug/L)	TP TSI
0.68	65.67	30	53.22

The divergence in TSI values from the TP and secchi depth are considered to be caused by inorganic material. This reservoir should be considered for a use attainability analysis to establish the appropriate dissolved oxygen criteria, rather than proceeding with TMDL development.

2) Sufficient excursions from the pH water quality criteria were recorded to assess this segment as not supporting of the aquatic life use. Four of 13 samples (30.8%) were above the upper range (9.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

3) The Aquatic Life Use has observed effects due to the following:

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- a. An exceedance of the manganese taste and odor water quality criterion in one of one sample collected in August, 1998;
- b. An exceedance of the acute copper criterion in one of one sample collected in August, 1998;
- c. The consensus based probable effects concentration (PEC) sediment screening values for copper (149 ppm, dry weight) was exceeded in a sediment sample collected in August, 1998.

IMPAIRMENT SOURCE: Unconfirmed Natural Conditions

The source of impairments is considered natural

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Culpeper
STREAM NAME: Mountain Run Lake
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E09L-02
ASSESSMENT CATEGORY: 5C
SEGMENT SIZE: 75 - Acres
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Upstream limit of Mountain Run Lake

RIVER MILE:

LATITUDE: 38.47839

LONGITUDE: -78.07873

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: 38.47929

LONGITUDE: -78.06694

Segment includes all of Mountain Run Lake.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: Dissolved Oxygen (2004)

The listing of this station is based on data from DEQ lake monitoring station 3-MTN028.68. Water quality monitoring data revealed the following for the 2004 water quality assessment period:

1) The Aquatic Life Use is impaired due to low dissolved oxygen in the bottom waters of the reservoir. Ten of 17 samples (58.8%) in bottom waters were below the minimum DO level (4.0 mg/L) for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

A Trophic State Index (TSI) value was calculated for total phosphorus (TP), chlorophyll a, and secchi depth using surface data (0.3 m depth) collected during the summer months (June through September). The calculated TSI values are summarized below:

Secchi, avg (m)	Secchi, TSI	TP, avg (ug/L)	TP TSI	Chlor a, avg (ug/L)	Chlor a TSI
0.98	60.3	30.0	50.8	9.7	52.9

The divergence in TSI values from the TP and chlorophyll a versus the secchi depth are considered to be caused by inorganic material. This reservoir should be considered for a use attainability analysis to establish the appropriate dissolved oxygen criteria, rather than proceeding with TMDL development.

IMPAIRMENT SOURCE: Unconfirmed Natural Conditions

The source of impairments is considered natural

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Fauquier, Stafford
STREAM NAME: Deep Run
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E10R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 4.83 - Miles
INITIAL LISTING: 1996 **TMDL SCHEDULE:** 2004
UPSTREAM LIMIT:

DESCRIPTION: Confluence of Green Branch
RIVER MILE: 4.83
LATITUDE: 38.46667 **LONGITUDE:** -77.63472

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Rappahannock River
RIVER MILE: 0.00
LATITUDE: 38.41028 **LONGITUDE:** -77.63556

Segment begins at the confluence of Green Branch to Deep Run and continues downstream to its confluence with the Rappahannock River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (1996)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (6 of 17 samples - 35.3%) were recorded at DEQ's ambient water quality monitoring station at Route 17 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Madison
STREAM NAME: Rapidan River
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E11R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 4.8 - Miles
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014
UPSTREAM LIMIT:

DESCRIPTION: Confluence of Kinsey Run
RIVER MILE: 81.06
LATITUDE: 38.42361 **LONGITUDE:** -78.36778

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence of Garth Run
RIVER MILE: 76.26
LATITUDE: 38.36611 **LONGITUDE:** -78.37028

Segment begins at the confluence of Kinsey Run to Rapidan River, at rivermile 81.06, downstream to its confluence to Garth Run, approximately one rivermile downstream of Rt. 662.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 17 samples - 11.8%) were recorded at DEQ's ambient water quality monitoring station 3-RAP077.28 at Route 662 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

Additionally, citizen monitoring data from station 3RAP-M3-SOS finds a medium probability of adverse conditions for biota.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Madison, Orange
STREAM NAME: Blue Run
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E13R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 4.21 - Miles
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Confluence of Barbour Run
RIVER MILE: 4.21
LATITUDE: 38.20111 **LONGITUDE:** -78.22306

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Rapidan River
RIVER MILE: 0.00
LATITUDE: 38.24556 **LONGITUDE:** -78.19222

Segment begins at the confluence of Barbour Run with Blue Run, approximately 0.13 rivermiles upstream of the Southern Rail Road bridge, and continues downstream to its confluence with the Rapidan River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (8 of 20 samples - 40.0%) were recorded at DEQ's ambient water quality monitoring station 3-BLU002.60 at Route 20 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

Additionally, citizen monitoring data from station 3BLU-01-SOS finds a medium probability of adverse conditions for biota.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Culpeper, Madison, Orange
STREAM NAME: Rapidan River
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E13R-02
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 7.5 - Miles
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Poplar Run
RIVER MILE: 47.41
LATITUDE: 38.26583 **LONGITUDE:** -78.15667

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Robinson River
RIVER MILE: 39.91
LATITUDE: 38.31167 **LONGITUDE:** -78.09444

Segment begins at the confluence of Poplar Run to the Rapidan River and continues downstream to its confluence with the Robinson River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (10 of 35 samples - 28.6%) were recorded at DEQ's ambient water quality monitoring station 3-RAP045.08 at Route 15 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Greene, Madison, Orange
STREAM NAME: Marsh Run
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E13R-03
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 5.19 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016
UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Marsh Run
RIVER MILE: 5.19
LATITUDE: 38.23246 **LONGITUDE:** -78.33414

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Rapidan River
RIVER MILE: 0.00
LATITUDE: 38.23400 **LONGITUDE:** -78.25096

Segment begins at the headwaters of Marsh Run and continues downstream to the confluence with the Rapidan River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2004)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 3 samples) were recorded at DEQ's ambient water quality monitoring station 3-MAS001.55 at Route 644 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Madison, Orange
STREAM NAME: Unnamed Tributary to the Rapidan River
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E13R-04
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 2.57 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016
UPSTREAM LIMIT:

DESCRIPTION: Headwaters of the unnamed tributary
RIVER MILE: 2.57
LATITUDE: 38.27515 **LONGITUDE:** -78.09067

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Rapidan River
RIVER MILE: 0.00
LATITUDE: 38.28003 **LONGITUDE:** -78.12244

Segment begins at the headwaters of the unnamed tributary and continues downstream to the confluence with the Rapidan River. This tributary flows into the Rapidan River from the south/southeast just downstream from the Route 634 bridge crossing over the Rapidan River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2004)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 2 samples) were recorded at DEQ's ambient water quality monitoring station 3-XEC000.12 at Route 634 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Madison
STREAM NAME: Robinson River
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E14R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 2.92 - Miles
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Confluence of Rose River

RIVER MILE: 24.65

LATITUDE: 38.47222

LONGITUDE: -78.31528

DOWNSTREAM LIMIT:

DESCRIPTION: Route 231

RIVER MILE: 21.73

LATITUDE: 38.44583

LONGITUDE: -78.26611

Segment begins at the confluence of the Rose River, just downstream of Route 670, and continues downstream to the end of the Class V designation at Route 231. The downstream extent of this segment was shortened from 2002 303(d) listing to reflect Class V designation.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting, Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002), Temperature (2004)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (5 of 19 samples - 26.3%) were recorded at DEQ's ambient water quality monitoring station 3-ROB024.06 at Route 649 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

Two of 18 samples (11.1%) recorded at station 3-ROB024.06 exceeded the Class V maximum temperature criterion of 21 °C established in 9 VAC 25-260-50 of the Virginia Water Quality Standards. As a result, this stream segment does not support the Aquatic Life Use goal for the 2004 water quality assessment.

Additionally, the Aquatic Life Use goal has observed effects for the following:

- a. DEQ benthic macroinvertebrate biological monitoring conducted at Route 642 finds this segment to be slightly impaired;
- b. Three of 19 samples (15.8%) exceeded the total phosphorus screening level of 200 ug/L at DEQ station 3-ROB024.06.

A TMDL to address the Recreation Use impairment due to fecal coliform bacteria exceedances is subject to the schedule of the Consent Decree. The TMDL to address the Aquatic Life Use impairment may extend to 2016.

IMPAIRMENT SOURCE: Unknown, Unknown

The source of impairments is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Madison
STREAM NAME: Little Dark Run
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E15R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 4.26 - Miles
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Little Dark Run
RIVER MILE: 4.26
LATITUDE: 38.36611 **LONGITUDE:** -78.26889

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Dark Run
RIVER MILE: 0.00
LATITUDE: 38.38306 **LONGITUDE:** -78.21139

Segment begins at the headwaters of Little Dark Run and continues downstream to its confluence with Dark Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (1998)

The listing of this stream segment is based on data from DEQ ambient water quality monitoring stations 3-LDR000.70 at Route 680 and 3-LDR003.19 at Route 634. Water quality monitoring data revealed the following for the 2004 water quality assessment period:

- 1) The entire 4.26-mile segment does not support the Recreation Use goal due to exceedances of the instantaneous fecal coliform bacteria criterion. Ten of 36 samples (27.8%) and two of 9 samples (22.2%) exceeded the instantaneous fecal coliform bacteria criterion at stations 3-LDR000.70 and 3-LDR003.19, respectively.
- 2) The Aquatic Life Use goal was found to be fully supporting with observed effects due to exceedances of the total phosphorus screening value. Two of 10 samples (20%) exceeded the screening level of 0.2 mg/L at station 3-LDR003.19. This assessment effects the 2.27-mile segment beginning at the headwaters of Little Dark Run downstream to the confluence of an unnamed tributary to Little Dark Run at rivermile 2.17.
- 3) DEQ benthic macroinvertebrate biological monitoring at station 3-LDR000.70 finds a 1.99-mile portion of this segment to be slightly impaired, resulting in a determination of fully supporting with observed effects for the Aquatic Life Use goal. The effected segment begins at the confluence of an unnamed tributary to Little Dark Run at rivermile 2.17 and continues downstream to its confluence to Dark Run.

IMPAIRMENT SOURCE: Unknown

The source of impairment is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Culpeper, Madison
STREAM NAME: Robinson River
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E15R-02
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 5.21 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016
UPSTREAM LIMIT:

DESCRIPTION: Confluence of White Oak Run
RIVER MILE: 5.21
LATITUDE: 38.35129 **LONGITUDE:** -78.11140

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Rapidan River
RIVER MILE: 0.00
LATITUDE: 38.31138 **LONGITUDE:** -78.09468

Segment begins at the confluence of White Oak Run with the Robinson River, at rivermile 5.18, downstream to its confluence with the Rapidan River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2004)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (9 of 35 samples - 25.7%) were recorded at DEQ's ambient water quality monitoring station 3-ROB001.90 at Route 614 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of impairment is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Culpeper, Orange
STREAM NAME: Cedar Run
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E16R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 2.19 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016
UPSTREAM LIMIT:

DESCRIPTION: Confluence of Cabin Branch
RIVER MILE: 2.19
LATITUDE: 38.37066 **LONGITUDE:** -77.99938

DOWNSTREAM LIMIT:
DESCRIPTION: Confluence with the Rapidan River
RIVER MILE: 0.00
LATITUDE: 38.35922 **LONGITUDE:** -77.97256

Segment begins at the confluence of Cabin Branch with Cedar Run downstream to its confluence with the Rapidan River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2004)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (5 of 20 samples - 25.0%) were recorded at DEQ's ambient water quality monitoring station 3-CED000.59 at Route 522 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

Additionally, citizen monitoring data from station 3CED-C2-SOS finds a medium probability of adverse conditions for biota.

IMPAIRMENT SOURCE: Unknown

The source of impairment is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Culpeper, Orange
STREAM NAME: Mine Run
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E17R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 9.95 - Miles
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Confluence of Cormack Run
RIVER MILE: 9.95
LATITUDE: 38.29000 **LONGITUDE:** -77.84778

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Rapidan River
RIVER MILE: 0.00
LATITUDE: 38.37806 **LONGITUDE:** -77.84278

Segment begins at the confluence of Cormack Run to Mine Run, approximately 0.6 rivermiles upstream of Route 20, and continues downstream to its confluence with the Rapidan River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 17 samples - 23.5%) were recorded at DEQ's ambient water quality monitoring station 3-MIR004.05 at Route 611 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Orange
STREAM NAME: Mountain Run
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E17R-02
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 9.79 - Miles
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Confluence of Mill Run
RIVER MILE: 9.79
LATITUDE: 38.30639 **LONGITUDE:** -77.96278

DOWNSTREAM LIMIT:
DESCRIPTION: Confluence with Mine Run
RIVER MILE: 0.00
LATITUDE: 38.37722 **LONGITUDE:** -77.84278

Segment begins at the confluence of Mill Run to Mountain Run, approximately 0.25 rivermiles downstream of Route 617, and continues downstream to its confluence with Mine Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (7 of 19 samples - 36.8%) were recorded at DEQ's ambient water quality monitoring station 3-MTR003.51 at Route 611 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Culpeper, Spotsylvania
STREAM NAME: Rapidan River
HYDROLOGIC UNIT: 02080103
TMDL ID: VAN-E18R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 2.47 - Miles
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Confluence of Wilderness Run

RIVER MILE: 7.78

LATITUDE: 38.36000

LONGITUDE: -77.70139

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence of Middle Run

RIVER MILE: 5.31

LATITUDE: 38.37083

LONGITUDE: -77.66833

Segment begins at the confluence of Wilderness Run to the Rapidan River, at rivermile 7.78, and continues downstream to its confluence with Middle Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (12 of 38 samples - 31.6%) were recorded at DEQ's ambient water quality monitoring station 3-RAP006.53 at Route 610 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Caroline, Fredericksburg, King George, Spotsylvania, Stafford
STREAM NAME: Rappahannock River
HYDROLOGIC UNIT: 02080104
TMDL ID: VAN-E20E-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 5.22 - Sq. Mi.
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: The fall line at Route 1
RIVER MILE: 110.6
LATITUDE: 38.32039 **LONGITUDE:** -77.47221

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence of Mill Creek with the Rappahannock River
RIVER MILE: 78.94
LATITUDE: 38.16730 **LONGITUDE:** -77.17405

Segment extends from the fall line at Route 1 downstream to the confluence of Mill Creek with the Rappahannock River, downstream from the Route 301 bridge.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting, Fish Consumption Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002), Fish Tissue - PCBs (2004)

The Recreation Use impairment on this stream segment is based on data from the following DEQ monitoring stations: 3-RPP107.91, 3-RPP104.47, 3-RPP098.81, 3-RPP091.55, and 3-RPP080.19. Based on monitoring data during the 2004 water quality assessment period, this segment was assessed as not supporting the Recreation Use goal due to exceedances of the instantaneous fecal coliform bacteria criterion recorded at each of the identified stations. The fecal coliform bacteria exceedance rates for each station are summarized below:

- 3-RPP107.91, 5 of 35 samples (14.3%);
- 3-RPP104.47, 4 of 35 samples (11.4%);
- 3-RPP098.81, 9 of 50 samples (18.0%);
- 3-RPP091.55, 9 of 51 samples (17.6%);
- 3-RPP080.19, 6 of 51 samples (11.8%).

All stations, except 3-RPP080.19, were identified in Attachment B of the June 1999 Consent Decree and are therefore subject to the TMDL schedule outlined by the consent decree.

This segment was also assessed as not supporting of the Fish Consumption Use goal for the 2004 water quality assessment. Fish tissue data from DEQ fish tissue/sediment monitoring stations 3-RPP107.33 and 3-RPP080.19 revealed exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in samples collected in May, 2001. The TV was exceeded in three species of fish samples collected May 15, 2001, at monitoring station 3-RPP107.33 (gizzard shad, channel catfish, and carp). The TV was exceeded in two species of fish samples collected May 14, 2001, at monitoring station 3-RPP080.19 (gizzard shad and blue catfish).

This segment was first listed for a swimming use impairment due to fecal coliform bacteria exceedances in the 2002 303(d) report. A fecal coliform TMDL is scheduled to be developed by 2010 in accordance with the Consent Decree schedule. The TMDL to address the Fish Consumption Use impairment may extend to 2016.

Fact Sheets for Category 5 Waters

IMPAIRMENT SOURCE: Unknown, Unknown

The source of the impairments is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Stafford
STREAM NAME: Claiborne Run
HYDROLOGIC UNIT: 02080104
TMDL ID: VAN-E20R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 5.12 - Miles
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary

RIVER MILE: 5.12

LATITUDE: 38.35889

LONGITUDE: -77.46583

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Rappahannock River

RIVER MILE: 0.00

LATITUDE: 38.30306

LONGITUDE: -77.45583

Segment begins at the confluence of an unnamed tributary to Claiborne Run, near Stafford High School, and continues downstream to its confluence with the Rappahannock River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting, Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (1998), pH (2002)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 15 samples - 20.0%) were recorded at DEQ's ambient water quality monitoring station 3-CLB000.50 at the Access Road off Route 3 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

Claiborne Run was initially listed in the 1998 303(d) report for a swimming use impairment based on fecal coliform bacteria exceedances recorded at monitoring station 3-CLB000.50. Data from the 2002 305(b) water quality assessment monitoring period (1/1/96 through 12/31/00) indicated the stream was fully supporting of the Clean Water Act's Swimmable Use goal. Two of 20 samples (10%) exceeded the instantaneous fecal coliform bacteria standard in the 2002 water quality assessment monitoring period.

Sufficient excursions from the pH water quality criteria were recorded at monitoring station 3-CLB000.50 to assess this segment as not supporting of the Aquatic Life Use goal in the 2004 water quality assessment. Two of 13 samples (15.4%) were below the lower range (6.0-9.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

Exceedance of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue was recorded in one species of fish samples collected in 2001 (american eel) at DEQ fish tissue station 3-CLB000.50. As a result, this segment was assessed as fully supporting of the Fish Consumption Use goal with an observed effect.

This segment was first listed for a swimming use impairment due to fecal coliform bacteria exceedances in the 1998 303(d) report. A fecal coliform TMDL is scheduled to be developed by 2010. The TMDL to address the aquatic life use impairment may extend to 2014.

IMPAIRMENT SOURCE: Unknown, Unknown

Fact Sheets for Category 5 Waters

The source of the impairments is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Fredericksburg, Spotsylvania
STREAM NAME: Hazel Run
HYDROLOGIC UNIT: 02080104
TMDL ID: VAN-E20R-02
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 2.76 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016
UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary
RIVER MILE: 2.76
LATITUDE: 38.28803 **LONGITUDE:** -77.49013

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Rappahannock River
RIVER MILE: 0.00
LATITUDE: 38.28951 **LONGITUDE:** -77.45038

Segment begins at the confluence of an unnamed tributary with Hazel Run, approximately 0.5 rivermiles upstream of Route 1, downstream to its confluence to the Rappahannock River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2004)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 15 samples - 20%) were recorded at DEQ's ambient water quality monitoring station 3-HAL000.57 at the Route 17/2 bridge to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

Exceedance of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue was recorded in one species of fish samples collected in May, 2001 (american eel). As a result, the segment was assessed as fully supporting of the Fish Consumption Use goal with an observed effect.

IMPAIRMENT SOURCE: Unknown

The source of the impairment is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Spotsylvania
STREAM NAME: Massaponax Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAN-E20R-03
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 6.04 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary
RIVER MILE: 7.6
LATITUDE: 38.23496 **LONGITUDE:** -77.50300

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with an unnamed tributary
RIVER MILE: 1.56
LATITUDE: 38.23271 **LONGITUDE:** -77.41490

Segment begins at the confluence of an unnamed tributary to Massaponax Creek, just upstream of Route 1, and continues downstream to its confluence with an unnamed tributary, approximately 0.25 rivermiles upstream of Ruffins Pond.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2004)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 14 samples - 14.3%) were recorded at DEQ's ambient water quality monitoring station 3-MAP002.61 at Route 609 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

Additionally, citizen monitoring data from stations 3MAP-14-SOS, 3MAP-12-SOS, and 3MAP-10-SOS find a medium probability of adverse conditions for biota.

IMPAIRMENT SOURCE: Unknown

The source of the impairment is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: King George, Stafford
STREAM NAME: Muddy Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAN-E21R-01
ASSESSMENT CATEGORY: 5C
SEGMENT SIZE: 3.87 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary
RIVER MILE: 3.87
LATITUDE: 38.28892 **LONGITUDE:** -77.33985

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Rappahannock River
RIVER MILE: 0.00
LATITUDE: 38.24633 **LONGITUDE:** -77.32694

Segment begins at the confluence of an unnamed tributary to Muddy Creek, approximately 0.7 rivermiles downstream from Route 218, and continues downstream to the confluence with the Rappahannock River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH (2004)

Sufficient excursions from the pH water quality criteria were recorded at DEQ's ambient water quality monitoring station 3-MUY001.43 at Route 3 to assess this segment as not supporting of the Aquatic Life Use goal in the 2004 water quality assessment. Two (2) of 12 samples (16.7%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards. The pH excursions may be attributable to natural conditions as this segment is a low-lying Coastal Plain environment with no riffles and slow moving pools that are subject to low pH.

IMPAIRMENT SOURCE: Unconfirmed natural conditions

The source of the impairment is unknown, but is believed to be attributable to natural conditions.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Caroline
STREAM NAME: Ware Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAN-E21R-02
ASSESSMENT CATEGORY: 5C
SEGMENT SIZE: 2.94 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016
UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Ware Creek
RIVER MILE: 7.56
LATITUDE: 38.17870 **LONGITUDE:** -77.38788

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary
RIVER MILE: 4.62
LATITUDE: 38.20175 **LONGITUDE:** -77.35021

Segment begins at the headwaters of Ware Creek and continues downstream to the confluence of an unnamed tributary, just downstream from Burma Road.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH (2004)

Sufficient excursions from the pH water quality criteria were recorded at DEQ's 2002 freshwater probabilistic monitoring station 3-WAE005.95 in Fort AP Hill property to assess this segment as not supporting of the Aquatic Life Use goal in the 2004 water quality assessment. Two (2) of 2 samples were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards. The pH excursions may be attributable to natural conditions as this segment is a low-lying Coastal Plain environment with no riffles and slow moving pools that are subject to low pH.

IMPAIRMENT SOURCE: Unconfirmed natural conditions

The source of the impairment is unknown, but is believed to be attributable to natural conditions.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin

CITY/COUNTY: Essex, King George, Lancaster, Middlesex, Richmond, Westmoreland

STREAM NAME: Rappahannock River

HYDROLOGIC UNIT: 02080104

TMDL ID: VAP-E22E-08

ASSESSMENT CATEGORY: 5A, 5C

SEGMENT SIZE: 141.3 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Devils Elbow at Toby Point and Green Bay

RIVER MILE: 70.52

LATITUDE:

LONGITUDE:

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE:

LONGITUDE:

The tidal mainstem Rappahannock River from Devils Point downstream to the mouth at the Chesapeake Bay

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: Chloride, Dissolved Oxygen, Nutrient/Eutrophication Biological Indicators

The lower tidal freshwater and transitional areas (river mile 70.52 to river mile)of the Rappahannock River are assessed as not supporting the Aquatic Life and Wildlife Uses based on chloride violations at multiple stations.

The mainstem of the Rappahannock River from Myrtle Swamp to its mouth was originally listed in 1998 by DEQ due to dissolved oxygen violations and nutrient overenrichment. The EPA extended the segment upstream to the confluence with Totuskey Creek (river mile). In the 2004 cycle dissolved oxygen violations were noted in deepwater and deep channel stations downstream of the confluence with Lancaster Creek (Morattico), which is further downstream at only river mile .

The mesohaline portion of the mainstem Rappahannock (river mile 48.51 to river mile) indicated benthic impairment based on the Chesapeake Bay Benthic Index of Biological Integrity. As this is a probabilistic study and the lower part of the segment has hypoxia (DO measurements <0.3 mg/L), the benthic impairment is most likely due to low dissolved oxygen and the entire area is listed as impaired for dissolved oxygen.

The Corrotoman River was included in EPA's 1998 Overlist. During the year 2004 cycle, the chlorophyll a and DO violation rates were acceptable. The B-IBI segment CRRMHa was insufficient. The segment was called impaired solely on EPA's overlist (nutrients/eutrophication biological indicators).

IMPAIRMENT SOURCE: Natural Conditions, Unknown

The chloride violations are attributed to low freshwater inflow in the summer months.

The dissolved oxygen violations are believed to be caused by a naturally occurring ridge in the river bed that prevents tidal flushing of the lower water column in the Rappahannock River. The low DO bottom water causing the DO violations is thus believed to be bottom water

Fact Sheets for Category 5 Waters

from the Chesapeake Bay. This bottom water flows into the Rappahannock with the incoming tide and then gets trapped by the naturally occurring ridge. Natural conditions are thus considered the main source of the recorded violations and subsequent benthic impairment. However, the low DO conditions may be exacerbated by nutrient loadings in the water body.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Essex
STREAM NAME: Occupacia Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E22R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 2.76 - Miles
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Hunters Millpond Dam
RIVER MILE: 10.50
LATITUDE: 38.04060 **LONGITUDE:** -77.00650

DOWNSTREAM LIMIT:

DESCRIPTION: Tidal Limit
RIVER MILE: 7.80
LATITUDE: 37.05280 **LONGITUDE:** -76.98740

Occupacia Creek from the Hunters Millpond Dam to the extent of tidal influences.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform

The segment was initially assessed as impaired during the 2002 cycle. During the 2004 cycle, the segment remained not supporting of the Recreation use based on a fecal coliform violation rate of 4/20 at the Route 17 bridge (3-OCC010.47). The fecal coliform TMDL is due 4/1/2014.

IMPAIRMENT SOURCE: Unknown

The source of the fecal coliform violations is considered unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Essex
STREAM NAME: Occupacia Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E22R-01
ASSESSMENT CATEGORY: 5C
SEGMENT SIZE: 2.76 - Miles
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Hunters Millpond Dam
RIVER MILE: 10.50
LATITUDE: 38.04060 **LONGITUDE:** -77.00650

DOWNSTREAM LIMIT:

DESCRIPTION: Tidal Limit
RIVER MILE: 7.80
LATITUDE: 37.05280 **LONGITUDE:** -76.98740

Occupacia Creek from the Hunters Millpond Dam to the extent of tidal influences.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH

In 1998, the segment was identified to Virginia for listing consideration. During the 2002 cycle, the segment was assessed as impaired of supporting of the Aquatic Life use based on a pH standard violations at the Route 17 bridge (3-OCC010.47).

During the 2004 cycle, the segment was assessed as not supporting due to a pH violation rate of 4/20. The pH TMDL is due in 2010.

IMPAIRMENT SOURCE: Natural Conditions

The pH violations in this segment are attributed to natural conditions.

Continued monitoring to increase the data set and make a confident assessment is recommended. Targeted monitoring and wetland delineation may be necessary to identify the limits of the segment affected by natural conditions. Such segments should be reclassified as wetlands where appropriate.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Essex
STREAM NAME: Farmers Hall Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E22R-02
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 4.38 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Headwaters
RIVER MILE: 4.38
LATITUDE: 37.99060 **LONGITUDE:** -76.99960

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth
RIVER MILE: 0.00
LATITUDE: 38.02780 **LONGITUDE:** -76.95440

Farmers Hall Creek from its headwaters to its mouth at the Rappahannock River

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform

The segment was assessed as not supporting the Recreation Use support goal based on a fecal coliform violation rate of 3/10 at the Route 631 bridge (3-FAR002.88).

IMPAIRMENT SOURCE: Unknown

The source of the fecal coliform violations is considered unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Essex, Richmond
STREAM NAME: Upper Rappahannock River
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E23E-01
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 3.7 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE:

LONGITUDE:

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE:

LONGITUDE:

As described in VDH Notice and Description of Shellfish Condemnation 068A

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH-DSS Shellfish Condemnation 068A, 3/6/2002

IMPAIRMENT SOURCE: Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Richmond
STREAM NAME: Little Carter Creek, Jugs Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E23E-02
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.32 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.95990 **LONGITUDE:** -76.82750

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: 37.90690 **LONGITUDE:** -76.77580

As described in VDH Notice and Description of Shellfish Condemnation 068B

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE:

 VDH Shellfish Restriction

VDH-DSS Shellfish Condemnation 068B, 3/6/2002

Size decreased in 2004 cycle.

IMPAIRMENT SOURCE:

 Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Essex
STREAM NAME: Hoskins Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E23E-03
ASSESSMENT CATEGORY: 5A, 5C
SEGMENT SIZE: 0.06 - Sq. Mi.
INITIAL LISTING: 1996 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Town of Tappahannock STP
RIVER MILE: 3.00
LATITUDE: 37.91080 **LONGITUDE:** -76.87840

DOWNSTREAM LIMIT:

DESCRIPTION: Rappahannock River confluence
RIVER MILE: 0.00
LATITUDE: 37.92190 **LONGITUDE:** -76.85280

Segment begins at the Town of Tappahannock STP discharge, and extends downstream to its mouth at the Rappahannock River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting, Aquatic Life Use - Not Supporting, Wildlife Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform, Chloride

This segment was initially included on the 1994 303(d) list based on excessive fecal coliform standard violations recorded at the Rt. 360 bridge (3-HOK000.74).

For the 2004 cycle, the segment was assessed not supporting of the Recreation use support goal based on a fecal coliform standard violation rate of 9/49 recorded at 3-HOK000.74. The upstream limit was extended to the Town of Tappahannock STP in the 1998 cycle in recognition that the STP may be a contributing source, although this has not been verified.

In the 2004 cycle, the segment was assessed as not supporting the Aquatic Life and Wildlife uses based on chloride violations at 3-HOK000.74. The TMDL for chloride is due in 2016.

Pfiesteria complex organisms were detected in water samples collected in the Rappahannock River off Hoskins Creek in September 1997.

IMPAIRMENT SOURCE: Unknown, PS - Municipal, Natural Conditions

The source of the fecal coliform impairment is considered unknown. The Tappahannock STP may be a contributing source, but there is a tour boat dock and public boat landing at the Route 360 bridge, which may also be contributing sources, as well as unknown nonpoint sources near the monitoring station.

Targeted monitoring is necessary to further delineate the extent of impairment and to characterize its causes and sources.

The chloride violations are attributed to natural conditions, although this has not been verified.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Essex
STREAM NAME: Piscataway Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E23E-04
ASSESSMENT CATEGORY: 5C
SEGMENT SIZE: 0.71 - Sq. Mi.
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014
UPSTREAM LIMIT:

DESCRIPTION: Fall Line
RIVER MILE: 8.20
LATITUDE: 37.88090 **LONGITUDE:** -76.88860

DOWNSTREAM LIMIT:

DESCRIPTION: Rappahannock River confluence
RIVER MILE: 0.00
LATITUDE: 37.90460 **LONGITUDE:** -76.81070

Segment begins at the limit of tide and extends downstream to its mouth at the Rappahannock River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting, Wildlife Use - Not Supporting

IMPAIRMENT CAUSE: pH, Chloride

The tidal Piscataway Creek was assessed not supporting of the Aquatic Life Use based on a pH violation rate of 2/19 at the Route 17 bridge (3-PIS004.79). The pH TMDL is due in 2014.

In the 2004 cycle, the segment was also assessed not supporting of the Aquatic Life and Wildlife Uses due to chloride violations. This TMDL is due in 2016.

IMPAIRMENT SOURCE: Natural Conditions

The pH impairment is attributed to natural conditions.

The source of the chloride is attributed to natural salinity.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Richmond, Westmoreland
STREAM NAME: Cat Point Creek Watershed
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E23R-01
ASSESSMENT CATEGORY: 5C
SEGMENT SIZE: 66.9 - Miles
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2004

UPSTREAM LIMIT:

DESCRIPTION: Headwaters
RIVER MILE: 14.10
LATITUDE: 38.07720 **LONGITUDE:** -76.84370

DOWNSTREAM LIMIT:

DESCRIPTION: Canal Swamp
RIVER MILE: 11.00
LATITUDE: 38.02833 **LONGITUDE:** -76.82083

Cat Point Creek and its major tributaries above Canal Swamp.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH

Cat Point Creek from Ruin Branch to Canal Swamp (4.99 miles) was assessed as not supporting of the Aquatic Life use support goal during the 1998 cycle based on pH standard violations recorded at monitoring station 3-CAT011.62, located at the Route 637 bridge. During the year 2004 cycle, the segment was extended due to the following pH violations:

25/55 at 3-CAT011.62
3/3 at 3-CAT011.62
3/3 at 3-BLA002.31
3/3 at 3-BLY000.27
2/3 at 3-BRL000.15
1/3 at 3-CMR000.50
2/3 at 3-NSS000.77
1/2 at 3-PAN003.00
2/3 at 3-SYN000.42
3/3 at 3-CYN002.57
3/3 at 3-TBS001.06
3/3 at 3-TBS003.39
1/3 at 3-RUN001.39

The TMDL for the original segment is due in 2014, but the TMDL for the upstream portion of Cat Point Creek and the tributaries are not due until 2016.

During the 1998 cycle, Canal Swamp was mistakenly called Bellfield Creek.

Fact Sheets for Category 5 Waters

IMPAIRMENT SOURCE: Natural Conditions

The source of the impairment is attributed to natural conditions.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Essex
STREAM NAME: Mount Landing Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E23R-02
ASSESSMENT CATEGORY: 5C
SEGMENT SIZE: 1.19 - Miles
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2004

UPSTREAM LIMIT:

DESCRIPTION: First tributary above the Route 716 bridge
RIVER MILE: 5.63
LATITUDE: 37.96360 **LONGITUDE:** -76.94980

DOWNSTREAM LIMIT:

DESCRIPTION: Tidal Limit
RIVER MILE: 4.44
LATITUDE: 37.96290 **LONGITUDE:** -76.93040

The segment starts at the first tributary upstream of the Route 716 bridge, and extends downstream to the effect of tide.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH, Dissolved Oxygen

Mount Landing Creek from the Route 716 bridge to the tidal limit at river mile 1.00 was assessed not supporting of the Aquatic Life use support goal in 1998 based on pH violations recorded at monitoring station 3-MTL004.82, located at the Route 716 bridge.

The segment location was changed during the year 2002 cycle because it was determined that the tidal limit is actually located at approximately river mile 4.44 and that the swamp conditions that may cause the DO impairment extend upstream of the bridge. In addition, the segment was also listed as impaired for dissolved oxygen.

During the year 2004 cycle, the pH violation rate was 22/46 and the dissolved oxygen violation rate was 10/48. The pH TMDL is due in 2010 and the DO TMDL is due in 2014.

IMPAIRMENT SOURCE: Natural Conditions

The source of the impairments is attributed to natural conditions.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Essex
STREAM NAME: Piscataway Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E23R-03
ASSESSMENT CATEGORY: 5C
SEGMENT SIZE: 3.5 - Miles
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2004

UPSTREAM LIMIT:

DESCRIPTION: Sturgeon Swamp
RIVER MILE: 10.50
LATITUDE: 37.88200 **LONGITUDE:** -76.93600

DOWNSTREAM LIMIT:

DESCRIPTION: Tidal Limit
RIVER MILE: 8.20
LATITUDE: 37.88090 **LONGITUDE:** -76.88860

From Sturgeon Creek confluence downstream to extent of tide.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH

Assessed not supporting of Aquatic Life use support goal based on previous pH standard violations recorded at monitoring station 3-PIS009.24, located at the Route 691 bridge.

IMPAIRMENT SOURCE: Natural Conditions

The source of the impairment is suspected to be caused by natural swampwater conditions.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Essex
STREAM NAME: Hoskins Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E23R-04
ASSESSMENT CATEGORY: 5C
SEGMENT SIZE: 12.96 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE:

LATITUDE: 37.94670

LONGITUDE: -77.06800

DOWNSTREAM LIMIT:

DESCRIPTION: Tidal limit

RIVER MILE:

LATITUDE: 37.92040

LONGITUDE: -76.89600

Headwaters to tidal limit

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH

Assessed not supporting of the Aquatic Life use support goal based on a pH standard violation rate of 6/10 recorded at monitoring station 3-HOK011.45, located at the Route 717 bridge.

IMPAIRMENT SOURCE: Natural Conditions

The source of the impairment is attributed to natural swampwater conditions in the watershed.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Essex
STREAM NAME: UT to Mount Landing Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E23R-05
ASSESSMENT CATEGORY: 5C
SEGMENT SIZE: 2.43 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Headwaters
RIVER MILE: 2.43
LATITUDE: 37.95450 **LONGITUDE:** -77.03640

DOWNSTREAM LIMIT:

DESCRIPTION: Tidal limit
RIVER MILE: 0.00
LATITUDE: 37.96770 **LONGITUDE:** -76.99830

Headwaters to mouth

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH

Assessed not supporting of the Aquatic Life use support goal based on a pH standard violation rate of 2/3 recorded at monitoring station 3-XFK001.38, located at the Route 628 bridge.

This station is a TMDL study station to address the low pH in Mount Landing Creek.

IMPAIRMENT SOURCE: Natural Conditions

The source of the impairment is attributed to natural swampwater conditions in the watershed.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Essex
STREAM NAME: Mount Landing Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E23R-06
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 1.19 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: First tributary above the Route 716 bridge
RIVER MILE: 5.63
LATITUDE: 37.96360 **LONGITUDE:** -76.94980

DOWNSTREAM LIMIT:

DESCRIPTION: Tidal Limit
RIVER MILE: 4.44
LATITUDE: 37.96290 **LONGITUDE:** -76.93040

The segment starts at the first tributary upstream of the Route 716 bridge, and extends downstream to the effect of tide.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform

The segment was assessed as not supporting of the Recreation Use during the year 2004 cycle based on a fecal coliform violation rate of 4/35 at the Route 716 bridge (3-MTL004.82).

IMPAIRMENT SOURCE: Unknown

The source of the impairment is considered unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Essex
STREAM NAME: Mount Landing Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E23R-07
ASSESSMENT CATEGORY: 5C
SEGMENT SIZE: 4.91 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Bull Neck Creek
RIVER MILE:
LATITUDE: 37.97860 **LONGITUDE:** -77.00650

DOWNSTREAM LIMIT:

DESCRIPTION: First tributary upstream of Route 716 bridge
RIVER MILE: 5.63
LATITUDE: 37.96360 **LONGITUDE:** -76.94980

Mount Landing Creek from the confluence with Bull Neck Creek downstream to the first tributary above the Route 716 bridge

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH

Assessed not supporting of the Aquatic Life use support goal based on a pH standard violation rate of 5/13 recorded at monitoring station 3-MTL010.40, located at the Route 629 bridge.

This station is a TMDL study station to address the low pH in Mount Landing Creek.

IMPAIRMENT SOURCE: Natural Conditions

The source of the impairment is attributed to natural swampwater conditions in the watershed.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Essex
STREAM NAME: UT to Piscataway Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E23R-08
ASSESSMENT CATEGORY: 5C
SEGMENT SIZE: 2.58 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016
UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE: 2.58

LATITUDE: 37.89700

LONGITUDE: -77.02570

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE: 37.87720

LONGITUDE: -76.99270

Headwaters to mouth at headwaters of Piscataway Creek

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH

Assessed not supporting of the Aquatic Life Use goal based on a pH violation rate of 3/5 taken at TMDL study station 3-XFL001.04.

IMPAIRMENT SOURCE: Natural Conditions

The pH impairment is attributed to natural conditions.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Richmond
STREAM NAME: Totuskey Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E24E-01
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.75 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.90720 **LONGITUDE:** -76.72250

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: **LONGITUDE:**

As described in VDH Notice and Description of Shellfish Condemnation 071B

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH-DSS Shellfish Condemnation 071B, 10/7/2002

Previous condemnation included Totuskey and Richardson Creeks. In 2004, the segment was shortened and the creeks were separated.

IMPAIRMENT SOURCE: Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Richmond
STREAM NAME: Totuskey Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E24E-02
ASSESSMENT CATEGORY: 5A, 5C
SEGMENT SIZE: 0.81 - Sq. Mi.
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014
UPSTREAM LIMIT:

DESCRIPTION: Tidal limit

RIVER MILE:

LATITUDE: 37.91580

LONGITUDE: -76.66290

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth at the Rappahannock River

RIVER MILE: 0.00

LATITUDE: 37.86590

LONGITUDE: -76.75250

The tidal portions of Totuskey Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting, Aquatic Life Use - Not Supporting, Wildlife Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform, Chloride

The segment was assessed as not supporting the Recreation Use because of 6 violations in 27 fecal coliform samples collected at the Route 3 bridge (3-TOT005.11). The fecal coliform TMDL is due in 2010.

In addition, in the 2004 cycle the segment was assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at 3-TOT005.11. The chloride TMDL is due in 2016.

Size corrected in 2004 cycle.

IMPAIRMENT SOURCE: NPS/PS, Natural Conditions

The source of the fecal coliform is unknown.

The chloride violations are attributed to natural salinity.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Essex
STREAM NAME: Rappahannock River: Garretts Marina
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E24E-03
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.01 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.81010

LONGITUDE: -76.74490

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE: 37.81190

LONGITUDE: -76.74320

As described in VDH Notice and Description of Shellfish Condemnation 181A

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH-DSS Shellfish Condemnation 181A, 12/27/1991

IMPAIRMENT SOURCE: Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Rappahannock River: Mark Haven Beach
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E24E-04
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.01 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.79210 **LONGITUDE:** -76.73010

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: 37.79340 **LONGITUDE:** -76.72740

As described in VDH Notice and Description of Shellfish Condemnation 181B

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH-DSS Shellfish Condemnation 181B, 12/27/1991

IMPAIRMENT SOURCE: Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Richmond
STREAM NAME: Richardson Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E24E-06
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.15 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE:

LONGITUDE:

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE:

LONGITUDE:

As described in VDH Notice and Description of Shellfish Condemnation 071A

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH-DSS Shellfish Condemnation 071A, 10/7/2002

Previous condemnation included Totuskey and Richardson Creeks. In 2004, the segment was shortened and the creeks were separated.

IMPAIRMENT SOURCE: Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Richmond
STREAM NAME: Bookers Mill Stream
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E24R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 6.22 - Miles
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Headwaters
RIVER MILE: 6.22
LATITUDE: 37.88120 **LONGITUDE:** -76.53490

DOWNSTREAM LIMIT:

DESCRIPTION: Totuskey Creek
RIVER MILE: 0.00
LATITUDE: 37.90970 **LONGITUDE:** -76.62100

Bookers Mill Stream from its headwaters to its mouth at the confluence with Totuskey Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform

Bookers Mill Stream was assessed not supporting of the Recreation Use support goal based on a fecal coliform violation rate of 4/19 recorded at the Route 612 bridge (3-BMS002.00).

IMPAIRMENT SOURCE: Unknown

The source of the impairment is considered unknown. Continued monitoring is necessary to increase the data set size and ensure a confident assessment.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Lagrange Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E25E-01
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.56 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.68390

LONGITUDE: -76.64180

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE:

LONGITUDE:

As described in VDH Notice and Description of Shellfish Condemnation 127

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH-DSS Shellfish Condemnation 127, 1/18/2002

Size reduced by 0.02 sq. mi. in 2004 cycle.

IMPAIRMENT SOURCE: Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Robinson Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E25E-02
ASSESSMENT CATEGORY: 5A, 5B
SEGMENT SIZE: 0.18 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.65830 **LONGITUDE:** -76.60070

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: **LONGITUDE:**

As described in VDH Notice and Description of Shellfish Condemnation 177

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting, Recreation Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction, Fecal Coliform

VDH-DSS Shellfish Condemnation 177, 2/13/2001
The TMDL is due in 2010

In 2002, the segment was also assessed as not supporting the Recreation Use due to fecal coliform violations at the end of Route 680 (3-ROS001.35). The violation rate in the 2004 cycle was 4/20. The TMDL is due in 2014.

The segment size was reduced by 0.10 sq. mi. in 2004.

IMPAIRMENT SOURCE: Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Urbanna Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E25E-04
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.21 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.62490

LONGITUDE: -76.57860

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE: 37.64090

LONGITUDE: -76.56620

As described in VDH Notice and Description of Shellfish Condemnation 042A, 9/17/1993

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH-DSS Shellfish Condemnation 042A, 9/17/1993

IMPAIRMENT SOURCE: Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Richmond
STREAM NAME: Farnham Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E25E-05
ASSESSMENT CATEGORY: 5A, 5B, 5C
SEGMENT SIZE: 0.43 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE: Notice
LATITUDE: 37.85890 **LONGITUDE:** -76.64840

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary (Mouth at Rappahannock River)
RIVER MILE: 070
LATITUDE: 37.82410 **LONGITUDE:** -76.68140

The boundaries of the condemned area are described in VDH Notice and Description of Shellfish Area Condemnation 070.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting, Shellfishing Use - Not Supporting, Aquatic Life Use - Not Supporting, Wildlife Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform, Chloride

The segment was been assessed as not supporting the Shellfishing Use since 1998 due to VDH-DSS Shellfish Condemnation 070, 10/17/2000. The TMDL is due in 2010.

In 2002, the segment was assessed as not supporting the Recreation Use due to fecal coliform violations at 3-FAM002.62. During the 2004 cycle, the violation rate was 5/27. The TMDL is due in 2014.

In the 2004 cycle, impairments of the Aquatic Life and Wildlife Uses were added due to chloride violations at 3-FAM002.62. The chloride TMDL is due in 2016.

IMPAIRMENT SOURCE: NPS, Natural Conditions

The source of the fecal coliform impairments is considered unknown.

The chloride impairment is attributed to natural salinity.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Parrotts Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E25E-07
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.16 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.72270

LONGITUDE: -76.64220

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE:

LONGITUDE:

As described in VDH Notice and Description of Shellfish Condemnation 090

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH-DSS Shellfish Condemnation 090, 9/20/2001

Size reduced by 0.03 sq. mi. in 2004 cycle.

IMPAIRMENT SOURCE: Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Weeks Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E25E-09
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.12 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.69580

LONGITUDE: -76.61410

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE:

LONGITUDE:

As described in VDH Notice and Description of Shellfish Condemnation 202

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH-DSS Shellfish Condemnation 202, 8/27/2002

Size reduced by 0.09 sq. mi. in 2004 cycle.

IMPAIRMENT SOURCE: Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Deep Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E25E-10
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.21 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.78190 **LONGITUDE:** -76.57710

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: **LONGITUDE:**

As described in VDH Notice and Description of Shellfish Condemnation 121

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH-DSS Shellfish Condemnation 121, 7/17/2002

Segment size increased and joined in 2004.

IMPAIRMENT SOURCE: Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster, Richmond
STREAM NAME: Lancaster Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E25E-11
ASSESSMENT CATEGORY: 5A, 5B
SEGMENT SIZE: 0.55 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.82740

LONGITUDE: -76.58240

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE:

LONGITUDE:

As described in VDH Notice and Description of Shellfish Condemnation 120B

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting, Recreation Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction, Fecal Coliform

VDH-DSS Shellfish Condemnation 120B, 7/17/2001
Size increased in 2004 cycle.

In 2004, the segment was also assessed as not supporting the Recreation Use due to a fecal coliform violation rate of 2/18 at 3-LAN002.81, located at the end of Route 1105. The TMDL is due in 2016.

IMPAIRMENT SOURCE: Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Richmond
STREAM NAME: Morattico Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E25E-12
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.11 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.81910

LONGITUDE: -76.65270

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE: 37.81320

LONGITUDE: -76.63910

As described in VDH Notice and Description of Shellfish Condemnation 120A

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH-DSS Shellfish Condemnation 120A, 7/17/2001

IMPAIRMENT SOURCE: Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Mulberry Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E25E-13
ASSESSMENT CATEGORY: 5A, 5B
SEGMENT SIZE: 0.27 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.78410

LONGITUDE: -76.59350

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE: 37.78590

LONGITUDE: -76.62200

As described in VDH Notice and Description of Shellfish Condemnation 120C

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting, Recreation Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction, Fecal Coliform

VDH-DSS Shellfish Condemnation 120C, 7/17/2001

In 2004, the segment was also assessed as not supporting the Recreation Use due to a fecal coliform violation rate of 2/18 at 3-MUB000.46, located at the end of Route 748. The TMDL is due in 2016.

IMPAIRMENT SOURCE: Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Rappahannock River: Beach Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E25E-14
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.07 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.66890

LONGITUDE: -76.52920

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE: 37.66160

LONGITUDE: -76.53280

As described in VDH Notice and Description of Shellfish Condemnation 116

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH-DSS Shellfish Condemnation 116, 1/7/1992

IMPAIRMENT SOURCE: Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Greenvale Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E25E-15
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.08 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.72600 **LONGITUDE:** -76.54750

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE: 37.71220 **LONGITUDE:** -76.54410

As described in VDH Notice and Description of Shellfish Condemnation 094

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH-DSS Shellfish Condemnation 094, 10/30/1998

IMPAIRMENT SOURCE: Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster, Richmond
STREAM NAME: Lancaster and Morattico Creeks
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E25E-16
ASSESSMENT CATEGORY: 5C
SEGMENT SIZE: 1.9 - Sq. Mi.
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016
UPSTREAM LIMIT:

DESCRIPTION: Tidal limit

RIVER MILE:

LATITUDE:

LONGITUDE:

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE:

LATITUDE:

LONGITUDE:

The tidal portion of Lancaster Creek, includes Morattico Creek

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting, Wildlife Use - Not Supporting

IMPAIRMENT CAUSE: Chloride

Lancaster and Morattico Creeks were assessed not supporting of the Aquatic Life and Wildlife Uses based on chloride violations at:

3-LAN000.00
3-LAN001.69
3-LAN002.81
3-MTT000.31

IMPAIRMENT SOURCE: Natural Conditions

Source is attributed to natural salinity.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Masons Mill Swamp
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E25E-17
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 0.01 - Sq. Mi.
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016
UPSTREAM LIMIT:

DESCRIPTION: Tidal limit

RIVER MILE:

LATITUDE:

LONGITUDE:

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE:

LATITUDE:

LONGITUDE:

Masons Mill Swamp from its tidal limit to the mouth at the Rappahannock River

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH

Assessed not supporting of the Aquatic Life Use due to a pH violation rate of 2/2 at 3-MAO000.62 (Route 604).

IMPAIRMENT SOURCE: Unknown

Source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Mud Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E25E-18
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 0.03 - Sq. Mi.
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016
UPSTREAM LIMIT:

DESCRIPTION: Tidal limit

RIVER MILE:

LATITUDE:

LONGITUDE:

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth at Rappahannock River

RIVER MILE:

LATITUDE:

LONGITUDE:

The tidal portion of Mud Creek

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: Dissolved Oxygen

The segment was assessed not supporting of the Aquatic Life use support goals based on a dissolved oxygen violation rate of 2/2 at 3-MUC002.31, located at Route 648.

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Urbanna Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E25E-19
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 0.17 - Sq. Mi.
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Tidal limit

RIVER MILE:

LATITUDE: 37.63070

LONGITUDE: -76.59870

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE: 37.62490

LONGITUDE: -76.57860

Tidal limit to downstream boundary of shellfish prohibition

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform

The segment was assessed not supporting of the Recreation Use based on a fecal coliform violation rate of 3/20 at 3-URB001.50, located at the end of Route 418.

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Lagrange Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E25R-02
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 2.72 - Miles
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Headwaters
RIVER MILE: 6.89
LATITUDE: 37.69000 **LONGITUDE:** -76.68010

DOWNSTREAM LIMIT:

DESCRIPTION: Tidal Limit
RIVER MILE: 3.75
LATITUDE: 37.66660 **LONGITUDE:** -76.58820

Lagrange Creek from the headwaters to the extent of tide at approximately river mile 3.75.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform

Lagrange Creek was assessed in 2004 as not supporting of the Recreation Use support goal based on a fecal coliform violation rate of 3/20 recorded at the Route 610 bridge (3-LGG004.54).

IMPAIRMENT SOURCE: Unknown

The source of the fecal coliform violations is considered unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Meachim Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-01
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.07 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.59800

LONGITUDE: -76.46270

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE: 37.60560

LONGITUDE: -76.46050

As described in VDH Notice and Description of Shellfish Condemnation 179A

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 179A, 8/24/1998

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Meachim Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-02
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.03 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.60510

LONGITUDE: -76.45120

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE: 37.60890

LONGITUDE: -76.45510

As described in VDH Notice and Description of Shellfish Condemnation 179B

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 179B, 8/24/1998

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Corrotoman River: Taylor Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-03
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.09 - Sq. Mi.
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.68620

LONGITUDE: -76.43660

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE:

LONGITUDE:

As described in VDH Notice and Description of Shellfish Condemnation 205

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 205, 3/27/2002

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Mosquito Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-04
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.01 - Sq. Mi.
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.62580

LONGITUDE: -76.36610

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE: 37.62420

LONGITUDE: -76.36380

As described in VDH Notice and Description of Shellfish Condemnation 203

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 203, 10/29/2002

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Myer Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-05
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.06 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.69680

LONGITUDE: -76.50400

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE: 37.69140

LONGITUDE: -76.49260

As described in VDH Notice and Description of Shellfish Condemnation 198B

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 198B, 3/27/2002

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Ewells Prong
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-06
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.04 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.66690 **LONGITUDE:** -76.51210

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: 37.66110 **LONGITUDE:** -76.50460

As described in VDH Notice and Description of Shellfish Condemnation 187C

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 187C, 3/27/2002

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Town Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-07
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.01 - Sq. Mi.
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.67700 **LONGITUDE:** -76.48860

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE: 37.67510 **LONGITUDE:** -76.48700

As described in VDH Notice and Description of Shellfish Condemnation 187A

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 187A, 3/27/2002

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Senior Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-08
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.05 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.72840 **LONGITUDE:** -76.52330

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: **LONGITUDE:**

As described in VDH Notice and Description of Shellfish Condemnation 132B

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 132B, 3/27/2002

Size reduced in 2004 cycle.

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Western Branch Corrotoman River
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-09
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.6 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.77070

LONGITUDE: -76.47580

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE:

LONGITUDE:

As described in VDH Notice and Description of Shellfish Condemnation 132A, 3/27/2002

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 132A, 3/27/2002

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Bush Park Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-10
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.09 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.56310 **LONGITUDE:** -76.39940

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: 37.57350 **LONGITUDE:** -76.38500

As described in VDH Notice and Description of Shellfish Condemnation 109

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 109, 4/27/1989

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Mill Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-11
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.12 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.58070 **LONGITUDE:** -76.44580

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: 37.58710 **LONGITUDE:** -76.42780

As described in VDH Notice and Description of Shellfish Condemnation 103

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 103, 12/10/1991

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Rappahannock River: Sturgeon Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-12
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.08 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.55990

LONGITUDE: -76.35430

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE: 37.56260

LONGITUDE: -76.34030

As described in VDH Notice and Description of Shellfish Condemnation 104

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 104, 11/28/1994

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Rappahannock River: Locklies Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-13
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.1 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.58830

LONGITUDE: -76.45190

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE:

LONGITUDE:

As described in VDH Notice and Description of Shellfish Condemnation 102

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 102, 1/25/2001

Size reduced by 0.04 sq. mi. in 2004 cycle.

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Hills Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-14
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.05 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.71790 **LONGITUDE:** -76.47220

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: **LONGITUDE:**

As described in VDH Notice and Description of Shellfish Condemnation 058A

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 058A, 3/27/2002

Size reduced by 0.02 sq. mi. in 2004 cycle.

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Bells Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-15
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.06 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.72280

LONGITUDE: -76.46030

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE: 37.71420

LONGITUDE: -76.45830

As described in VDH Notice and Description of Shellfish Condemnation 058B

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 058B, 3/27/2002

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Eastern Branch Corrotoman River
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-16
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.39 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.73930 **LONGITUDE:** -76.73930

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: 37.72230 **LONGITUDE:** -76.43240

As described in VDH Notice and Description of Shellfish Condemnation 058C

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 058C, 3/27/2002

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Eastern Branch Carter Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-17
ASSESSMENT CATEGORY: 5A, 5B
SEGMENT SIZE: 0.15 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.66200 **LONGITUDE:** -76.40860

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: **LONGITUDE:**

As described in VDH Notice and Description of Shellfish Condemnation 041A

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting, Recreation Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction, Fecal Coliform

VDH Shellfish Condemnation 041A, 10/3/2002
The segment was shortened in 2004 cycle. The TMDL is due in 2010.

In the 2004 cycle, the segment was also listed as impaired of the Recreation Use goal based on a fecal coliform violation rate of 5/38 at 3-CEB001.92, located at Route 200. The TMDL is due in 2014.

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Carter Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-19
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.07 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.66150 **LONGITUDE:** -76.43460

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: 37.65710 **LONGITUDE:** -76.43680

As described in VDH Notice and Description of Shellfish Condemnation 041B

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 041B, 10/3/2002

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Broad Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-21
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.03 - Sq. Mi.
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.55950 **LONGITUDE:** -76.31350

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: 37.56190 **LONGITUDE:** -76.31470

As described in VDH Notice and Description of Shellfish Condemnation 038A

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 038A

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Rappahannock River
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-22
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.14 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.62430 **LONGITUDE:** -76.54800

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: 37.61690 **LONGITUDE:** -76.53630

As described in VDH Notice and Description of Shellfish Condemnation 051A

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 051D, 9/10/1997

Size corrected in 2004 cycle.

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Rappahannock River
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-23
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.03 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.61400 **LONGITUDE:** -76.51570

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: 37.61420 **LONGITUDE:** -76.51270

As described in VDH Notice and Description of Shellfish Condemnation 051B

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 051B, 9/10/1997

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Middlesex
STREAM NAME: Whiting Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-24
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.18 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE: 37.60460 **LONGITUDE:** -76.48090

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE: 37.61040 **LONGITUDE:** -76.50610

As described in VDH Notice and Description of Shellfish Condemnation 051C

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 051C, 9/10/1997

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Rappahannock River
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-28
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.1 - Sq. Mi.
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.61520 **LONGITUDE:** -76.29550

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: 37.61410 **LONGITUDE:** -76.28610

As described in VDH Notice and Description of Shellfish Condemnation 053A

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 053A, 9/16/1993

Size was corrected in 2004 cycle.

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Carter Cove
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-30
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.06 - Sq. Mi.
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.66070 **LONGITUDE:** -76.45160

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: 37.65980 **LONGITUDE:** -76.44460

As described in VDH Notice and Description of Shellfish Condemnation 041C

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 041C, 10/3/2002

Segment was threatened in 1998 b/c it was a part of the larger seasonal condemnation. During the 2002 cycle, the segment was split off and downgraded to restricted. The TMDL is due in 2014.

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Myer Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-31
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.03 - Sq. Mi.
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.68190 **LONGITUDE:** -76.49480

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: 37.68470 **LONGITUDE:** -76.49000

As described in VDH Notice and Description of Shellfish Condemnation 198C

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 198C, 3/27/2002

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Millenbeck Prong
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-32
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.03 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.66690 **LONGITUDE:** -76.50230

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: 37.66050 **LONGITUDE:** -76.50170

As described in VDH Notice and Description of Shellfish Condemnation 187B

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 187B, 3/27/2002

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Whitehouse Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-33
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.04 - Sq. Mi.
INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.65760 **LONGITUDE:** -76.51480

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: 37.65290 **LONGITUDE:** -76.51160

As described in VDH Notice and Description of Shellfish Condemnation 187D

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 187D, 3/27/2002

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Davis Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-35
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.01 - Sq. Mi.
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary
RIVER MILE:
LATITUDE: 37.73360 **LONGITUDE:** -76.50590

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary
RIVER MILE:
LATITUDE: 37.73070 **LONGITUDE:** -76.50510

As described in VDH Notice and Description of Shellfish Condemnation 132C

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 132C, 3/27/2002

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Myer Creek
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26E-36
ASSESSMENT CATEGORY: 5B
SEGMENT SIZE: 0.05 - Sq. Mi.
INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016
UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE:

LATITUDE:

LONGITUDE:

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE:

LATITUDE:

LONGITUDE:

As described in VDH Notice and Description of Shellfish Condemnation 198A

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

VDH Shellfish Condemnation 198A, 3/27/2002

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: Rappahannock River Basin
CITY/COUNTY: Lancaster
STREAM NAME: Belwood Swamp
HYDROLOGIC UNIT: 02080104
TMDL ID: VAP-E26R-01
ASSESSMENT CATEGORY: 5A
SEGMENT SIZE: 3.75 - Miles
INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: McMahon Swamp
RIVER MILE: 3.75
LATITUDE: 37.78300 **LONGITUDE:** -76.49790

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth
RIVER MILE: 0.00
LATITUDE: 37.76550 **LONGITUDE:** -76.48510

Segment starts at McMahon Swamp and extends downstream to mouth at Western Branch Corrotoman River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform

The segment was initially assessed in 1998 as fully supporting but threatened of the Recreation Use based on violations of the fecal coliform standard at monitoring station 3-BLD000.58, located at the Route 3 bridge. During the year 2002 cycle, the segment was downgraded to impaired.

During the 2004 cycle, the segment continues to be impaired based on a fecal coliform violation rate of 8/19. The fecal coliform TMDL is due in 2014.

IMPAIRMENT SOURCE: Unknown

The source of the impairment is considered unknown.

Continued monitoring is recommended to increase the data set and to make a confident assessment.